

KOMAROV, V.L., akademik, glavnyy red.; SHISHKIN, B.K., red. izdaniya;  
BOBROV, Ye.G., doktor biol.nauk, prof.red.; VASIL'CHEMKO, I.T.,  
red.; GORSHKOVA, S.G., red.; GRIGOR'YEV, Yu.S., red.; GRUBOV, V.I.,  
red.; DOROFYEV, P.I., red.; IL'INSKAYA, I.A., red.; KLOKOV, M.V.,  
red.; KUPRIYANOVA, L.A., red.; LINCHEVSKIY, I.A., red.; MOVOPOKROV-  
SKIY, I.V., red.; POBEDIMOVA, Ye.G., red.; POPOV, M.G., red.;  
POYARKOVA, A.I., red.; SHTYENBERG, Ye.I., red.; TSVEL'EV, N.N., red.;  
SMIRNOVA, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR. Moskva. Izd-vo Akad. nauk  
SSSR, 1958. 775 p. (MIRA 12:7)

1. Chlen-korrespondent AN SSSR (for Shishkin).  
(Botany)

BOBROV, Ye.G., doktor biol.nauk, prof.; VASIL'CHENKO, I.T.; GORSHKOVA,  
S.G.; GRIGOR'YEV, Yu.S.; GRUBOV, V.I.; DOROFYEV, P.I.; IL'INSKAYA,  
I.A.; KLOKOV, M.V.; KUPRIANOVA, L.A.; LINCHEVSKIY, I.A.;  
NOVOPOKROVSKIY, I.V.; POBEDIMOVA, Ye.G.; POPOV, M.G.; POYARKOVA,  
A.I.; SHTEYNBERG, Ye.I.; TSVELEV, N.N.; SHISHKIN, B.K., red.  
izdaniya; SMIRNOVA, A.V., tekhn.red.

[Dicotyledons] Dicotyledons. Moskva, Izd-vo Akad.nauk SSSR, 1959.  
775 p. (Akademiia nauk SSSR, Botanicheskiy institut, Flora SSSR,  
vol.23) (MIRA 13:4)

(Dicotyledons)

GRIGOR'YEV, Yu.S.

Methods of ecological research and the problem of organic expediency. Bot.shur. 44 no.11:1538-1545 M '59.  
(MIRA 13:4)

1. Laboratoriya ekologii Instituta botaniki Akademii nauk  
USSR, g.Tashkent:  
(Botany--Ecology)

ZAKIROV, Kadyr Zakirovich; GRIGOR'YEV, Yu.S., doktor biol. nauk, otv. red.; EYDEL'MAN, A.S., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Flora and vegetation of the Zeravshan Basin] Flora i rastitel'nost' basseina reki Zeravshan. Tashkent, Izd-vo Akad. nauk UzSSR. Pt.2. [Synopsis of flora] Konspekt flory. 1961. 445 p. (MIRA 15:11)

(Zaravshan Valley—Botany)

GRIGOR'YEV, Yu.S.

Historical approach to biology; some notes concerning the  
collection of articles "Philosophical problems in modern  
natural science." Bot. zhur. 46 no.12:1835-1837 D '61.  
(MIRA 15:1)

1. Institut botaniki AN Uzbekskoy SSR, Tashkent.  
(Biology--Philosophy)

GRIGOR'YEV, Yu.S.

New data on the ecology of orchard grass; historical approach to biology as related to the problem of polyploidy. Bot.zhur. 47 no.1: 3-16 Ja '62. (MIRA 15:2)

1. Institut botaniki AN Uzbekskoy SSR, Tashkent.  
(Orchard grass) (Polyploidy)

GRIGOR'YEV, Yu.S.; PAUZNER, L.Ye.

Materials on the ecology of the species of *Aegileps* L.  
Bot. zhur. 48 no.5:640-660 My '63. (MIRA 17:1)

1. Institut botaniki AN Uzvekskoy SSR, Tashkent.

GRIGORIYEV, Yu. S., kapitan 2-go ranga; NIKOLAYEV, N.E., polkovnik

the training and conducting of amphibious operations. Mor.  
sbor. 47 no.4:81-88 Ap '64. (MIRA 18:7)

GRIGOR'YEV, Yu.S., kapitan 2-go ranga

Rebirth of the submarine fleet of the Federal Republic of  
Germany. Mor. sbor. 47 no.8:82-85 Ag '64.

(MIRA 18:7)

GRIGOR'YEV, YURIY VLADIMIROVICH

Sistema Knigsnabzheniya Sovetskikh Bibliotek. Moskva, Goskul 'Tprosvetizdat,  
1956.

46 P. 22 cm.

At head of title: Moscow. Gosudarstvennyy Bibliotechnyy Institut.  
Bibliographical footnotes.

Also available on hard copy, Z 819.G8.

GUMBURG, D.M., inzhener (Yaroslavl'); GRIGOR'YEV, Yu.V., inzhener  
(Yaroslavl')

Modernizing the devices for protecting cables from stray currents.  
Zhel.dor.transp. 37 no.12:82-83 D '55. (MIRA 9:5)  
(Electric cables) (Electric currents, Vagrant)

GUMBURG, D.M. (Yaroslavl'); GRIGOR'YEV, Yu.V. (Yaroslavl').

Device for testing polarized drainage relays. Zhel.dor.transp.38  
no.12:63-65 D '56. (MLRA 10:2)

1. Nachal'nik otдела signalizatsii, tsentralizatsii, blokirovki slushay signalizatsii i svyazi Severnoy dorogi (for Gumburg).
2. Starshiy inzhener dorozhnoy laboratorii signalizatsii i svyazi Severnoy dorogi (for Grigor'yev).  
(Electric cables) (Electrolytic corrosion)

GRIGOR'YEV, Yu. V.

Determining phase correlations in track circuits. Avtom., telem. i  
svyaz' no. 4:31 Ap '57. (MIRA 11:4)

1. Starshiy inzhener laboratorii signalizatsii i svyazi Severnoy  
dorogi.

(Railroads—Electric equipment)

GUMBURG, D.M.; GRIGOR'YEV, Iu.V.

Our experience using pulse track circuits. Avtom., telemekh. i svyaz'  
no.5:23-24 My '57. (MLRA 10:7)

1. Nachal'nik otдела sluzhby signalizatsii i svyazi Severnoy dorogi  
(for Gumburg). 2. Staryshiy inzhener laboratorii signalizatsii i  
svyazi (for Gumburg).

(Railroads--Communication systems)

GRIGOR'YEV, Yu.V.

Polarized drainage relay system of the Northern Railway.  
Avtom., telem. i svyaz' 2 no.3:12-15 Mr '58. (MIRA 13:1)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi.  
(Railroads--Communication systems)  
(Electrolytic corrosion)

GUMBURG, D.M.; GRIGOR'YEV, Yu.V.

Use of single rail networks. Avtom.telem.i svyaz' 3 no.10:  
24-25 0 '59. (MIRA 13:2)

1. Nachal'nik otdela signalizatsii tsentralizatsii i blokirovki  
sluzhby signalizatsii svyazi Severnoy dorogi (for Gumburg).  
(Railroads--Communication systems)

GRIGOR'YEV, Yu.V.

Combination device for a.c. measurements in rails. Avtom.,  
telen. i svyaz' 4 no.1:34-35 Ja '60. (MIRA 13:4)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy  
dorogi.

(Railroads—Electronic equipment)  
(Electric meters)

GRIGOR'YEV, Yu.V.

Device for testing hooks, straps, and safety belts. Avtom., telem.  
i svyaz' 4 no.2:37 F '60. (MIRA 13:6)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi.  
(Electric lines--Poles)

GRIGOR'YEV, Yu.V.; BERDICHEVSKIY, TS.O.

OS-1.2 portable dry transformer. Avtom., telem. i svyaz' 4 no.4:  
28-29 Ap '60. (MIRA 13:6)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi  
(for Grigor'yev). 2. Starshiy inzhener laboratorii signalizatsii i  
svyazi Severnoy dorogi (for Berdichevskiy).  
(Electric transformers)

GRIGOR'YEV, Yu.V.

Automatic limiting of the charging current for storage batteries  
in automatic block systems. Avtom., telem. i aviaz'. 4 no.5:30-31  
My '60. (MIRA 13:8)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi.  
(Storage batteries) (Railroads—Signaling—Block system)

GRIGOR'YEV, Yu.V.; SERDICHEVSKIY, TS.O., inzh.

Portable device for testing high-voltage equipment. Avtom.,  
telem. i svyaz' 4 no. 12:23-24 D '60. (MIRA 14:1)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi  
(for Grigor'yev). 2. Laboratoriya signalizatsii i svyazi  
Severnoy dorogi (for Berdichevskiy).

(Railroads--Electric equipment--Testing)

(Railroads--Signaling--Block system)

GUMBURG, D.M.; GRIGOR'YEV, Yu. V.

Outstanding maintenance of relay interlocking devices. Art., telem.  
i sviaz' 5 no.1:22-23 Ja '61. (MIRA 14:3)

1. Nachal'nik otдела Spetsial'nogo tsentral'nogo byuro sluzhby  
signalizatsii i svyazi Severnoy dorogi (for Gumburg). 2. Nachal'-  
nik dorozhnoy laboratorii signalizatsii i svyazi Severnoy dorogi  
(for Grigor'yev).

(Railroads--Signaling--Interlocking systems)

GUMBURG, D.M.; GRIGOR'YEV, Yu.V.

Brigades of construction and installation workers should be organized in railroad districts. Avtom., telem. i sviaz' 5 no.3:35-36 Mr '61. (MIRA 14:9)

1. Nachal'nik otдела signalizatsii, tsentralizatsii i blokirovki sluzhby signalizatsii i svyazi Severnoy dorogi (for Gamburg).
2. Nachal'nik dorozhnoy laboratorii Severnoy dorogi (for Grigor'yev).

(Railroads--Signaling--Block system)

GRIGOR'YEV, Yu. V.; BERDICHEVSKIY, TS.O., starshiy inzh.

Portable PKI-59 kenotron device. Avtom., telem. i svyaz' 5 no.5:29-31  
My '61. (MIRA 14:6)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi,  
vneshtatnyy korrespondent zhurnala "Avtomatika, telemekhanika i  
svyaz'" (for Grigor'yev). 2. Laboratoriya signalizatsii i svyazi  
Severnoy dorogi (for Berdichevskiy).

(Electric cables--Testing)

GRIGOR'YEV, Yu.V.

Regulation of a.c. and checking of the lamp filaments in automatic block systems. Avtom., telem.i sviaz' 5 no.7:30-32 J1 '61.  
(MIRA 14:10)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi vneshtatnyy korrespondent zhurnala "Avtomatika, telemekhanika i svyaz'".

(Railroads--Signaling--Block system)

9,2580 (1159, 1163, 1040)

29307  
S/109/61/006/000/001/027  
D201/D302

AUTHORS: Grigor'yev, Yu.V., and Khokhlov, R.V.

TITLE: An oscillator parametrically coupled to a linear network

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 10, 1961, 1617 - 1624

TEXT: A.N. Charakhch'yan (Ref. 6: ZhTF, 1936, 6, 7, 1230) investigated the parametric excitation of oscillations, at which the emf's of an external given amplitude and phase were applied to a resonance amplifier, parametrically coupled to a linear network. In the present article the regeneration introduced by the parametrically excited network into the generator is considered, the changes of the parameter being made directly not by intermediary of an amplifier, but by the oscillator itself. The analysis is carried out from the behavior of a self oscillating system with two parametrically coupled, degrees of freedom as shown in Fig. 1, in which the parametric coupling is achieved by the use of ferrite toroids. For

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An oscillator parametrically ...

From the set in Fig. 1 the harmonic approximation of the solution of the system equations is obtained, from which the expression for the frequency of oscillations for loose coupling is obtained as

$$(\nu_2 - \frac{\omega}{2})^2 [1 - \frac{2\delta_2}{\delta_0} - \frac{\delta_2^2}{q^2} - \frac{(\nu_2 - \frac{\omega}{2})^2}{q^2}] + (\frac{2\delta_2}{\delta_0})^2 \Delta^2 = 0$$

together with the equation for 'resonance' curves

$$\eta^2 = (1 - \frac{\delta_2^2}{q^2} - y)(\frac{2\delta_2}{\delta_0} - y)^2 \quad (4)$$

where  $q = [(A_0/4)mv_1^2]$ ,

$$\eta^2 = (\frac{2\delta_2}{\delta_0})^2 \frac{\Delta^2}{q^2}; \quad y = 2 \frac{2\delta_2}{\delta_0} \frac{B^2}{A^2} = 1 + \frac{A^2}{A_0^2},$$

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An oscillator parametrically ...

$m = \frac{2\gamma}{L_0}$ ;  $\xi = v_1 v_2$ ;  $v_1^2 = \frac{1}{L_0 C_1}$ ;  $L_0 = L + 2\beta$ ;  $A_0$  - amplitude of oscillations of loaded oscillator;  $\Delta = v_2 - v_1/2$ ; all other symbols are the ones usually used. The stability of the system is evaluated from the Lyapunov method. For weak regenerative coupling they take the shape of

$$y = \frac{1}{2} \left( 1 + \frac{\delta_2}{\delta_0} \right),$$

$$\begin{aligned} y^4 - \left( 1.5 - 2 \frac{\delta_2}{\delta_0} + 2 \frac{\delta_2^2}{\delta_0^2} \right) y^3 + \left( 0.5 - 3 \frac{\delta_2}{\delta_0} + 3 \frac{\delta_2^2}{\delta_0^2} + 8 \frac{\delta_2}{\delta_0} \frac{\delta_2^2}{\delta_0^2} - \frac{\delta_2^2}{\delta_0^2} \right) y^2 + \\ + \left( \frac{\delta_2}{\delta_0} - \frac{\delta_2^2}{\delta_0^2} - 8 \frac{\delta_2}{\delta_0} \frac{\delta_2^2}{\delta_0^2} - 4 \frac{\delta_2^3}{\delta_0^3} \frac{\delta_2^2}{\delta_0^2} + \frac{\delta_2^2}{\delta_0^2} \right) y + 2 \frac{\delta_2}{\delta_0} \frac{\delta_2^2}{\delta_0^2} \left( 1 + \frac{\delta_2}{\delta_0} \right) > 0, \quad (5) \\ y < \frac{2}{3} \left( 1 + \frac{\delta_2}{\delta_0} - \frac{\delta_2^2}{\delta_0^2} \right). \end{aligned}$$

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An oscillator parametrically ...

Equation  $y < \frac{1}{2} (1 + \frac{\delta_2}{\delta_0})$  is called the amplitude stability condi-

tion, equation (5) the composite stability and  $y < \frac{2}{3} (1 + \frac{\delta_2}{\delta_0} - \frac{\delta_2^2}{\delta_0^2})$  ✓

the frequency stability condition; they are analyzed as boundaries between the domains of stable and unstable states on the plane of resonance curves. The equation for the stability limit of the composite condition is thus obtained as

$$\eta^2 = \frac{3(y-1)(y-\frac{2}{3}) \left[ (y-0.5)(y-\frac{2\delta_1}{\delta_0}) + \frac{\delta_1^2}{\delta_0^2} \right]}{(y-0.5) \left[ -2y(y-1) + 8\frac{\delta_1}{\delta_0}(y-0.5) - 4\frac{\delta_1^2}{\delta_0^2} \right]} \left( \frac{2\delta_1}{\delta_0} - y \right)^2 \quad (6)$$

and the same for the frequency condition as

$$\eta^2 = \frac{1}{2} \left( y - \frac{2\delta_2}{\delta_0} \right)^3 \quad (7)$$

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An oscillator parametrically ...

The boundary of the amplitude stability condition is a straight line intersecting the boundary of frequency conditions when  $2\delta_2/\delta_0 < 2/3$ . The stability of the oscillator has also been considered as a function of the loading: slight, medium and heavy. For a medium

loading of the oscillator at  $1 - \frac{2\delta_2}{\delta_0} \leq \frac{\delta_2^2}{q^2} \geq \frac{1}{4} (1 + \frac{\delta_2}{\delta_0})$ , the jump

of frequency and amplitude with a changed tuning of partial frequencies for instance, takes place at the points of frequency and amplitude curves, at which the tangent to these curves is vertical. When the loading is weak, there is a closed loop of the boundary

loop and this results in that with  $1 - \frac{2\delta_2}{\delta_0} > \frac{\delta_2^2}{q^2} \geq \frac{1}{4} (1 + \frac{\delta_2}{\delta_0})$ , the

points with vertical tangents can be reached only for  $\delta_2^2/q^2$ , some-

smaller than  $1 - \frac{2\delta_2}{\delta_0}$  and for  $\delta_2^2/q^2$ , only slightly larger than

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An oscillator parametrically ...

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$\delta_2$   
 $\delta_0$   
 $\delta_1$  (1 :  $\delta_2$ ); when the loading is heavy only those of single valued amplitude and frequency curves can be stable for which  $\delta_2^2/q^2 > 1/3$ . 4  
Experiments carried out have proved that in this case the oscillations have a self-modulating character and become intermittent for zero detuning. The experiments also proved that the theory as given above is qualitatively correct in describing the behavior of self-oscillating systems with two parametrically related degrees of freedom. The authors acknowledge the helpfull assessment of the obtained results by K.F. Teodorichik. There are 10 figures and 7 Soviet-bloc references.

SUBMITTED: January 31, 1961

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S/803/62/000/003/002/012  
D201/D308

AUTHORS: Grigor'yev, Yu.V. and Kuvshinnikov, B.A.  
TITLE: Pulsed control of the reactor power  
SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Avtomatika  
i telemekhanika, no. 3, 1962. Sistemy upravleniya  
yadevnymi energeticheskimi ustanovkami, 16-21

TEXT: The authors give a short comparative analysis of the operation and of results obtained in reactor power control using sampled-data controllers with pulse-width modulation of the error signal  $\varepsilon(t)$  and of a proportional integrating system of continuous control. The controlled object was a graphite moderated uranium reactor with an average life-time of thermal neutrons of  $4.25 \times 10^{-4}$  sec and zero reactivity temperature coefficient. Transients were analyzed using the Laplace transform method. The results have shown that 1) the transients calculated from the sampled-data system correspond exactly to those of the continuous system calculated by the log amplitude method. 2) With proper choice of the modulating fre-

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Pulsed control of the reactor power

S/803/62/000/003/002/012  
D201/D308

quency ( $f_0 - 2$  c/s) the dynamic characteristics obtained from the sampled data system are better than those obtained with a continuous system. 3) The modulation frequency substantially affects the dynamic characteristics of the sampled-data system. The main design difficulty is in the construction of contactless pulse-width modulators having a low pulse repetition rate (a few per second) and a high input resistance (of the order of a few megohms). The design of such modulators is now in its final stages at the MIFI. There are 4 figures.

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GUMBURG, D.M.; GRIGOR'YEV, Yu.V.

Remarks on semiautomatic block system layouts. Avtom., telem. i svyaz'  
6 no.7:36-37 J1 '62. (MIRA 16:2)

1. Nachal'nik otdela signalizatsii, tsentralizatsii i blokirovki  
Severnoy derezi (for Gumburg). 2. Nachal'nik dorozhnoy laboratorii  
signalizatsii i svyazi, vneshtatnyy korrespondent zhurnala "Avtomatika,  
telemekhanika i svyaz'" (for Raul Grigor'yev).  
(Railroads-Signaling-Block system)

GRIGOR'YEV, Yu.V.; MILYUKOV, Yu.A.

Transistorized PPSh-62 Sev converter. Avtom., telem.i sviaz' 6  
no.11:40-41 N '62. (MIRA 15:11)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi (for Grigor'yev). 2. Starshiy elektromekhanik laboratorii signalizatsii i svyazi Severnoy dorogi (for Milyukov).  
(Railroads—Electronic equipment) (Electric current converters)

GRIGOR'YEV, Yu.V.

Reaction of parametrically excited systems on a parameter changing  
self-oscillator. Radiotekh. i elektron. 7 no.10:1838-1841 0 '62.  
(MIRA 15:10)

(Oscillators, Electron-tube)

S/109/63/008/003/020/027  
D271/D308

AUTHOR: Grigor'yev, Yu. V.

TITLE: Theory of an oscillator with two parametrically connected degrees of freedom

PERIODICAL: Radiotekhnika i elektronika, v. 8, no. 3, 1963, 506-510

TEXT: An oscillator with two degrees of freedom is analyzed in which the basic circuit resonates at half-frequency. Feedback oscillations excited in the loading circuit modulate the reactive parameter of the oscillator. The principle of operation of the system is shown in two variants with inductive or capacitative parametric coupling. The system with inductive coupling is described by

$$x_1 = A \cos(\nu_1 t + \varphi), \quad x_2 = B \cos(2\nu_1 t + \psi),$$

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Theory of an oscillator...

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D271/D308

where  $A$ ,  $B$ ,  $\varphi$ , and  $\psi$  are slowly varying time functions, and  $X_1$ ,  $X_2$  are voltages on capacitors in the oscillator and loading circuits. By analogy with the author's previous work (Radio-tekhnika i elektronika, v. 6, no. 10, 1961, 1617), a system of simplified equations is obtained for  $\dot{A}$ ,  $\dot{B}$ ,  $\dot{\varphi}$ , and  $\dot{\psi}$ , and an expression for  $\dot{\Phi}$  where  $\Phi = 2\varphi - \psi$ . In stationary conditions,  $A$ ,  $B$ ,  $\Phi$  are constant and  $\varphi$ ,  $\psi$  represent the frequency shift due to the reaction of the loading circuit on the oscillator. For class A operation, equations are derived for the oscillation frequency and for the resonance curves. A set of amplitude and frequency curves is drawn, and stability factors are shown for various coupling factors. Using Lyapunov's method, stability limits are graphically analyzed, and conditions are discussed in which various modes of operation are possible. An expression and a graph are given for the frequency stabilization factor, and it is pointed out that the systems considered provide additional possibilities of frequency stabilization,

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Theory of an oscillator...

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D271/D308

besides the widened tuning range. The author acknowledges the assistance of R. V. Khokhlov. There are 3 figures.

SUBMITTED: July 26, 1962

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GRIGOR'YEV, Yu.V.

Nonsteady modes in parametric excitation of oscillations.

Radiotekh. i elektron. 9 no.10:1886-1889 0 '64.

(MIRA 17:11)

GRIGOR'YEV, Yu.V.

PPV-3a transistorized converter-rectifier. Avtom., telem. i  
sviaz' 8 no.10:24-27 0 '64.

(MIRA 17:11)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi.

GRIGOR'YEV, Yu.V.

Semiconductor converter-rectifiers for supplying power to rectifier track circuits. Avtom., telem. i svyaz' 8 no.12:28-29 D '64.

(MIRA 18:1)

1. Nachal'nik laboratorii signalizatsii i svyazi Severnoy dorogi.

L 04517-57 ENT(1)

ACC NR: AP6033287

SOURCE CODE: UR/0141/66/009/005/0932/0941

AUTHOR: Grigor'yev, Yu. V.; Rudenko, V. K.; Khokhlov, R. V.

ORG: Moscow State University (Moskovskiy gosudarstvenny universitet)

TITLE: Theory of an optical parametric oscillator ✓

SOURCE: IVUZ. Radiofizika, v. 9, no. 5, 1966, 932-941

TOPIC TAGS: nonlinear optics, parametric amplifier, harmonic generation, frequency conversion, resonator

ABSTRACT: Parametric excitation of oscillations in a Fabry-Perot-type resonator which is filled with an optically transparent nonlinear medium with quadratic polarizability was analyzed as a single-mode approximation. Primary attention is given to the behavior of a system when the phase matching of modes interacting in the cavity is disturbed and the resonant and parametric frequencies are dissimilar. A condition for excitation of oscillations is derived and the stationary states and their stability are analyzed. A comparison of parametric oscillations is made for systems with distributed and lumped parameters. Orig. art. has: 7 figures and 26 formulas.

SUB CODE: 20/ SUBM DATE: 17Jan66/ ORIG REF: 009/ OTH REF: 007/ ATD PRESS: 5100

Card 1/1 *LC*

UDC: 621.373.93:621.378.001:621.372.413

GRIGOR'YEV, Yu. Ya, Eng.; KOMISAROV, B. I., Eng.

Lightning Arresters

Installing a lightning protective cable on an operating, 35 KV two circuits transmission line. Rab. energ. 2 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, <sup>1952</sup>December ~~1953~~, Unclassified.

GRIGOR'YEV, Yu.Ye., inzhener.

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Electric transmission lines in the United States. Elek.sta. 25 no.7:  
60-61 J1 '54. (MIRA 7:8)

(United States--Electric networks) (Electric networks--United  
States)

GRIGOR'YEV, YU. E.

AID P - 1621

Subject : USSR/Engineering

Card 1/2 Pub. 29 - 3/23

Author : Grigor'yev, Yu. E., Eng.

Title : Machinery used in construction of electric power transmission lines

Periodical : Energetik, 1, 6-9, Ja 1955

Abstract : In building an electric power transmission line, experience has taught that for successful accomplishment of the task a very careful choice in using proper machinery should be exercised. The efficient construction of bases for towers, the erection of towers, the stringing of wires, the handling of auxiliary equipment and moving the machinery from place to place require proper selection of correct excavating machines, and ditch-digging or boring machines, depending on location-topography, climate and other circumstances. The right-size cranes, pumps, dump-trucks, and similar equipment

Energetik, 1, 6-9, Ja 1955

AID P - 1621

Card 2/2 Pub. 29 - 3/23

should be according to requirements.

Institution: None

Submitted : No date

GRIGOR'YEV, Yuriy Yevgen'yevich; GUL'DENBAL'E, Vadim Vladimirovich;  
LEVITSKIY, Konstantin Konstantinovich; ROKOTYAN, S.S., re-  
dakter; GORTINSKIY, S.M., redakter; VORONIN, K.P., tekhnicheskiy  
redakter.

[Construction of the Soviet Union's first long distance 400  
kilovolt electric transmission line] Stroitel'stvo pervoi v  
Sovetskoy Soyuzo dal'nei elektropredachi 400 kv. Pod red. i  
s prediel. S.S. Rokotiana. Moskva, Gos.energ.izd-vo, 1956.  
86 p.

(Electric lines)

(MLA 10:6)

RESEARCH, Ye.Ye., Inst.

Suspension of the 227 kv. electric transmission line on transverse  
steel wire ropes. Emergencies, za rub. no.1:22-31 J--F '67.

(HRA 12:11)

(Cable--Electric lines--Overhead)

SOV/112-58-2-2101

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2,  
pp 50-51 (USSR)

AUTHOR: Grigor'yev, Yu. Ye.

TITLE: Glass Insulators for Electric Transmission Lines  
(Steklyannyye izolyatory dlya liniy elektroperedachi)

PERIODICAL: Energokh-vo za rubezhom, 1957, Nr 1, p 51

ABSTRACT: Many grades of glass that have good electric strength do not meet the requirements of mechanical and thermal durability. However, these characteristics can be much improved by hardening the glass, which does not change its insulating properties. The strength of glass insulators under surface flash-over conditions is twice that of porcelain insulators. A peculiar feature of a glass insulator is that damage to the hardened layer completely destroys the insulator. In this case, the insulator head remains between metal parts while the insulator string keeps carrying a mechanical load, this fact permitting the abolition of the routine buzz stick insulator check and the restriction of checking to simple inspection from the ground.

A. L. V.

Card 1/1

GRIGOR'YEV, Yu.Ye., inzh.

Unrolling device for use in putting up electric transmission  
lines. Energetik 5 no.9:34-38 S '57. (MIRA 10:10)  
(Electric lines)

GRIGOR'YEV, Yu.Ye., inzh.

Stand for testing the uprights of power lines (from "The Engineer,"  
202, no.5263, 1956). Energokhoz. za rub. no.5:40-41 S-0 '57.  
(MIRA 13:6)  
(Great Britain—Electric lines—Poles)

GRIGOR'YEV, Yu. Ye., inzh.

Construction of the 400 kv long-distance power distribution line  
from the Kuybyshev Hydroelectric Power Station to Moscow, Energetik  
5 no. 11:27-34 N '57. (MIRA 10:12)

(Electric lines)

GRIGOR'YEV, Yu.Ye., inzh.

Prestressed reinforced concrete poles for 110kv lines (from  
"Electrical World," 147 no.2 1957). Elek.sta. supplement no.6:36-38  
N-D '57. (MIRA 11:2)  
United States--Electric lines--Poles)

SOV/112-59-2-2794

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2,  
pp 73-74 (USSR)

AUTHOR: Achkasov, D. I., and Grigor'yev, Yu. Ye.

TITLE: Constructing the Kuybyshev-Moscow 400-kv Electric Transmission Line  
(Stroitel'stvo elektroperedachi 400 kv Kuybyshevskaya GES-Moskva)

PERIODICAL: V sb.: Energ. str-vo SSSR za 40 let. M.-L., Gosenergoizdat,  
1958, pp 373-380

ABSTRACT: The Kuybyshev-Moscow transmission line is the first member of the united high-voltage network of the USSR. Among transmission lines of this class, the first 380-kv 954-km single-circuit line was put in operation in Sweden in 1952; the second line is the Kuybyshev-Moscow (1956) 400-kv 900-km line. The latter consists of two circuits with three switching stations and a 480-Mva capacitive compensation. The transmission-line circuits terminate at receiving substations. Each substation has four banks of 400/110/11 and 220/110/11-kv transformers; provision is made for eventual installation of

Card 1/2

SOV/112-59-2-2794

Constructing the Kuybyshev-Moscow 400-kv Electric Transmission Line

synchronous condensers. A 400-kv interconnection is built between the substations; this is part of the future Moscow 78-km ring. The total length of 400-kv lines is 1,783 km. The substations are connected at 110 and 220 kv with the Moscow system. In building the transmission lines, the following work was done: 3,400,000 m<sup>3</sup> of earth excavated, 320,000 m<sup>3</sup> of concrete laid, 4,365 towers erected, 62,700 tons of metal structures installed, and 32,500 tons of conductors and grounding wires spanned. In the course of construction, the following items were built: an 883-km communication line, workers' settlements around the substations and switching stations, including clubs, schools, etc., totaling 32,000 m<sup>2</sup> of floor area; about 100 km of temporary railroad track and side lines, etc. The construction was peculiar in its new tower designs, their foundations, new types of line hardware, new types of insulators, use of the split phase, etc. Crossing of the Usa-River reservoir by the transmission line was particularly difficult (70-m, 320-ton towers, 1,140-m span, etc.).

F.F.V.

Card 2/2

GRIGOR'YEV, Yu.Ye., inzh.

Testing of tee connectors (from "Power Apparatus and Systems,"  
no. 26, 1956). Energokhoz. za rub. no. 6:34-36 M-D '58.

(MIRA 12:4)

(United States--Electric contactors--Testing)

GRIGOR'YEV, Yu.Ye., inzh.

~~Problems of design and construction of electric transmission~~  
lines in Canada. Energokhoz.za rub. no.4:20-24 J1-4g '59.  
(MIRA 12:11)

(Canada--Electric lines)

COLUMBIAN, Y. Y., inch.

Use of single string suspension insulators for deadening of 230 kv. lines in the U.S.A. Englewood, Pa. vol. no. 32 JUNE 1956.

(FIN: 20:21)

(United States--Electric Lines--Overhead)  
(Electric Insulators and Insulation)

GRIGOR'YEV, Yu.Ye., inzh.

Fittings and insulators for 400-500 kv electric transmission  
lines. Energ.stroi. no.4:84-87 '59. (MIRA 13:8)

1. Trest "Armsat".  
(Electric lines--Overhead)

GRIGOR'YEV, Yu.Ye., inzh.

Silicon coatings are used in U.S.A. to protect insulators from becoming dirty. Energokhoz. sa rub. no.5:32-35 S-0 '59.

(MIRA 13:2)

(United States--Electric insulators and insulation)

(Protective coatings) (Protective coatings)

8(3)

SOV/91-59-6-25/33

AUTHOR: Grigor'yev, Yu.Ye., Engineer

TITLE: A Miniature Line Insulator

PERIODICAL: Energetik, 1959, Nr 6, pp 33-34 (USSR)

ABSTRACT: This is a short description of a new FM-4.5 insulator, mass-produced by the trust "Armset". The new small-size insulator is a modification of the P-4.5 insulator but has reduced height (140 mm instead of 170 mm) and weight (5.6 kg instead of 6.5 kg). The FM-4.5 insulator is made of electrotechnical porcelain and has a forgeable cast iron cap. According to the Teploelektroproyekt, the insulator FM-4.5 can be used in chains, having a number of elements equal to those of the P-4.5 insulator, provided that the reduction of impulse strength of 110-220 kv lines is within admissible limits. The new insulator matches the requirements of GOST 6493-53 for P-4.5 type insulators.

Card 1/2

A Miniature Line Insulator

30V/91-50-6-25/33

Chains of 7 and 14 PM-4.5 insulators have a wet-discharge voltage satisfying the requirements of GOST 6490-53. However, until the completion of testing of voltage distribution on chains made up of both above-named insulators, no such simultaneous use of them in the same chains should be made. Thus, should a chain using P-4.5 insulators have some defective insulators, it is recommended to have the whole chain with those insulators replaced by a chain with PM-4.5 insulators. There is 1 diagram.

Card 2/2

DUTKIN, G.S.; CHUKHOV, S.P.; GRIGOR'YEV, Yu.Ye., red.; IGLITSYN, I.L.,  
red.; BORUNOV, N.I., tekhn.red.

[Equipment and regulations for the erection of 35 to 500 kv.  
electric power transmission lines] Montazhnye prispособleniia  
i ukazaniia po montazhu provodov linii elektropredachi 35 - 500 kv.  
Moskva, Gos.energ.izd-vo, 1960. 46 p.

(MIRA 14:1)

1. Armat', trust, Moscow.  
(Electric lines)

GRIGOR'YEV, Yu. Ye., inzh.

Supports of electric power transmission lines with a single  
foundation. Energokhoz. za rub. no.2:44-45 Mr-Ap '60.

(MIRA 13:6)

(Electric lines--Poles)

GRIGOR'YEV, Yu.Ye., inzh.

Construction of 345 kv. lines in Canada. Energiyokhoz. za rub.  
no.4:30-32 J1-Ag '60.

(MIRA 13:10)

(Canada--Electric lines--Overhead)

GRIGOR'YEV, Yu.Ye., inzh.

Suspension insulators made from hard glass. Energetik 8  
no. 12;4-6 D '60. (MIRA 13:12)  
(Electric insulators and insulation)  
(Electric lines--Overhead)

DUTKIN, G.S.; ROSHCHIN, P.I.; CHUKHOV, S.P.; GRIGOR'YEV, Yu.Ye., red.;  
PRILEPSKAYA, V.D., tekhn. red.

[Equipment of 35 to 500 kv. outdoor electric power distribution  
installations] Armatura otkrytykh raspredelitel'nykh ustroystv  
35-500 kv. Moskva, 39 p. (MIRA 14:9)

1. Moscow. Nauchno-issledovatel'skiy institut elektropromyshlennosti.  
TSentral'noye byuro tekhnicheskoy informatsii.  
(Electric power distribution—Equipment and supplies)

ASTAKHOV, N.P., inzh.; GRIGOR'YEV, Yu.Ye., inzh.; SKOBELEV, S.A., inzh.

Concerning a certain method for repairing operating electric  
power transmission lines. Elektrichestvo no.7:86 J1 '62.  
(MIRA 15:7)

(Electric lines—Overhead)

ASTAKHOV, N.P., inzh.; GRIGOR'YEV, Yu.Ye., inzh.; SKOBELEV, S.A., inzh.

Letter to the editor. Elek. sta. 33 no.4:89 Ap '62.

(MIRA 15:7)

(Electric lines--Overhead)

GRIGOR'YEV, Yuriy Yevgen'yevich; ZIL'BERMAN, Rafail Isaakovich;  
KOSHKAROV, Boris Vladimirovich; MEYMAN, Isaak Abramovich;  
REUT, Mikhail Antonovich; FAYEYMAN, A.L., red.;  
BUL'DYAYEV, N.A., tekhn. red.

[Handbook on the construction of electric power transmission lines] Spravochnik po stroitel'stvu linii elektroperedachi. Pod obshchey red. A.D.Romanova. Moskva, Gosenergoizdat, 1963. 488 p. (MIRA 17:1)  
(Electric lines--Overhead)

GRIGOR'YEV, Yu.Ye., inzh.

Conversion of long-distance power transmission lines in Great  
Britain to operation on 400 kv. Energ. stroi no.39:94-96 '64.  
(MIRA 17:11)

MIRONOV, Vadim Vital'yevich; GUSLISTYY, K.G. [Huslistyi, K.H.],  
doktor ist. nauk prof., otv. red.; GRIGOR'YEV, Yu.Ye.  
[Hryhor'iev, IU.IE.], red.

[Culture and mode of life of miners in the Soviet Ukraine]  
Kul'tura i pobut hirnykiv Radians'koi Ukrainy. Kyiv, Nau-  
kova dumka, 1965. 124 p. (MIRA 18:10)

CA GRIGOR'YEV, Z. YE.

15

*Hygienic standardization of butyl alcohols. Z. K. Grigor'ev (Leningrad Ind. Hyg. Inst.) Gigiena i Sanit. 1961, No. 3, 18-22. — Tests of com. butyl alcs. used in the Soviet industry as solvents, etc., indicate the need for the following specifications: max. unsatd. 0.2%, with distn. range for fermentation butyl alc. at 115-118°, and for synthetic 112-20°. Since the alcs. show relative low toxicity, their use in industry instead of more toxic solvents is recommended. Toxicological data on tests of various brands on mice are reported. Generally, the alcs. act as narcotics, especially at concn. above 80 mg./l. Skin tests with rabbits showed more reaction to the crude synthetic product than to fermentation butyl alc. It is pointed out that butyl alc. of Soviet commerce is not standardized and may contain up to 10% amyl and hexyl alcs. and up to 3%  $\text{FeCl}_3$  and formaldehyde. O. M. Kosolapov*

GRIGOR'EV, Z.YE.

2577. TOXICITY OF VOLATILE SUBSTANCES FROM TAR IN SEMI-COOKING OF PPAT.  
Grigor'ev, Z.Ye. (Gigiena Sanit. (Hyg. & Sanit., Moscow), Nov. 1953,  
25-30; abstr. in Chem. Abstr., 1954, vol. 48, 4007). Pent tars heated in  
air at 560 evolved volatile substances which contained hydrocarbons and  
phenols, but were free of benzene, carbon disulphide, or hydrogen sulphide.  
The principal toxic components are the phenols and not the hydrocarbons.  
Particularly bad in this respect are the lighter fractions of the tar.  
These at 0.005-0.01 mg/l. concentration cause disruption of the conditioned  
reflex apparatus in white mice; the mice is achieved by direct skin contact  
of the tar. Inhalation of the vapour for seventeen days at various  
intervals led to weight loss in the experimental animals and numerous  
pathological changes in the internal organs. The vapours are irritants.  
C.A.

62

GRIGOR'YEV, Z.Ye.

Toxicity of volatile tar in semicoke production from Chernkhovsk coal and its fractions. Gig. sanit., Moskva no. 1:34-37 Jan 1953.  
(CIWL 24:2)

1. Of Leningrad Scientific-Research Institute of Labor Hygiene and Occupational Diseases.

GRINBERG, A.V.; GRIGOR'YEV, Z.<sup>42</sup> kandidat meditsinskikh nauk, direktor;  
KOVNATSKIY, M.A., professor, zamestitel' direktora po nauchnoy chasti.

Penetrability by X-rays of inhaled dust and its significance for radio-  
scopic diagnosis of pneumoconiosis. Vest.rent. i rad. no.3:26-31 My-Je  
'53. (MLA 6:8)

1. Leningradskiy nauchno-issledovatel'skiy institut gigiyeny truda i prof-  
sabolevaniy. (Diagnosis, Radioscopic) (Lungs--Dust diseases)

GRIGOR'YEV, Z.Ye.

Toxicity of volatile substances in tar in semicoking peat. Oig. sanit.,  
Moskva no.11:26-30 Nov 1953. (GLML 25:5)

1. Of Leningrad Institute of Labor Hygiene and Occupational Diseases.

LEVIN, V.M., kandidat meditsinskikh nauk; FRIDLYAND, I.G., professor, konsul'tant;  
GRIGOR'YEV, Z.YE., kandidat meditsinskikh nauk, direktor; KOVNATSKIY, M.A.,  
professor, zamestitel' direktora po nauchnoy chasti.

Certain clinical characteristics of peptic ulcer in adolescents. Vop.pediat.  
21 no.4:40-44 J1-Ag '53. (MLRA 6:10)

1. Otdel rabocheho podrostka Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta gigiyeny truda i profsabolevaniy (for Fridlyand).
2. Leningradskiy gosudarstvennyy nauchno-issledovatel'skiy institut gigiyeny truda i profsabolevaniy (for Grigor'yev and Kovnatskiy). (Ulcers)

GRIGOR'YEV, Z. YE

✓ Cancerogenic properties of semicoaling tars from Chyrem-  
kha coal. Z. B. Grigor'ev (Leningrad Inst. Ind. Hyg. and  
Occupational Diseases). *Gigiena i Sanit.* 1954, No. 7, 28-8;  
cf. *C.A.* 47, 10200i. --Repeated application of the tars to  
the skin of mice leads to reproducible falling of hair, fol-  
lowed by skin atrophy, appearance of keloids, and in a few  
cases cancerous state of the skin. Degeneration of most of  
the internal organs follows prolonged application of the tar.  
The tar does not appear to contain 3,4-benzopyrene, as  
examined by fluorescence methods; although analogs of this  
hydrocarbon are also absent, in some cases skin cancer has  
been produced by the tar in the exptl. animals. Specimens  
contg. more PhO<sub>2</sub> gave the most severe reactions.

G. M. Kosolapoff

GRIGOR'YEV, Z.Ye.

Technique for investigating the effects of volatile compounds and gases on carabrospinal nerve activity while breathing the substance. Z. B. Grigor'ev (State Sci. Research Inst. Ind. Hyg. and Occupational Diseases, Leningrad). *Farmakol. i Toksikol.* 18, No. 4, 49-52 (1965).—A respiration chamber is described and illustrated, in which conditioned reflexes (in rats) are tested under exposure to red and white light, then under the influence of respired vapor (gasoline) or toxic gas (CO). The app. is adaptable to tests of gases and vapors in general. Julian F. Smith

GRIGOR'YEV, Z.Ye.

mb Relations between carboxyhemoglobin content of blood and changes in conditioned reflex action in test animals. Z. R. Grigor'ev. *Farmakol. i Toksikol.* 18, No. 6, 56-9 (1956).—The accepted carboxyhemoglobin (COHb) content of human blood after 8 hrs. of exposure is approx. found in rat blood in 60 min. of exposure, indicating much faster satn. with CO. Tests on conditioned reflexes in rats, after exposure to air with CO at 0.06 mg./l. until COHb reached 5% in the blood, gave evidence that CO acts directly on the central nervous system. Air with CO at 0.3 mg./l. or less, producing up to 15% COHb content, affected the reflexes only transitorily. At 0.3-0.7 mg./l. and up to 31% COHb the effects on reflexes were longer-lasting, up to 8-10 days. J. E. Smith

Name: GRIGOR'YEV, Z. E.

Dissertation: Industrial hygiene in the production of synthetic liquid fuel

Degree: Doc Med Sci

*Defended at*  
~~Attestation~~: State Order of Lenin Inst for the Advanced Training of Physicians imeni S. M. Kirov

*Publication*  
~~Defense~~ Date, Place: 1956, Leningrad

Source: Knizhnaya Letopis , No 51, 1956

GRIGOR'YEV, Z.Ye., kandidat meditsinskikh nauk

Prevention of chronic intoxications by carbon monoxide in factories  
manufacturing synthetic liquid fuel. Vrach.delo no.2:175-178 P '56.

(MIRA 9:7)

1. Leningradskiy nauchno-issledovatel'skiy institut gigiyeny truda  
i professional'nykh zabolevaniy

(CARBON MONOXIDE--TOXICOLOGY)

EXCERPTA MEDICA Sec.17 Vol.4/2 Public Health,etc.Feb58  
GRIGOR'YEV Z. E.

530. METHODS OF LOWERING THE INCIDENCE OF ILLNESS IN SYNTHETIC LIQUID FUEL PLANTS. (Russian text) Grigoriev Z. E. GIGIENA 1956, 10 (44-46)

During a period of 2 yr. the sanitary-hygienic aspects of working and living conditions and sanitary and medical services as well as the incidence of illness of workers were studied in plants engaged in semicoking of peat and coal. Heavy work in the plants under survey was insufficiently mechanized, the equipment used was out of date, sanitary and technical procedures were not always adhered to, resulting in inadequacy of the sanitary-hygienic working conditions in some of the workshops and consequently higher incidence of illness. The highest incidence of disease existed in auxiliary workshops where the working conditions were particularly unsatisfactory. The author recommends a series of measures to ameliorate the state of affairs.

GRIGOR'YEV, Z.M., red.

[Transactions of the jubilee session devoted to the 30th anniversary of the Institute of Industrial Hygiene and Occupational Diseases] Trudy iubileinoi nauchnoi sessii, posviashchennoi 30-letnei deistelnosti instituta, 1924-1954. Leningrad, 1957. 508 p. (MIRA 12:6)

1. Leningrad. Institut gigiyeny truda i professional'nykh zabolevaniy.

(INDUSTRIAL HYGIENE) (INDUSTRIAL MEDICINE--RUSSIA)

GRIGOR'YEV, Z.M. (Leningrad)

Hygienic rating of benzine produced by hydrogenation of coal.  
Gig.truda i prof.zab. 1 no.2:34-37 Mr-Ap '57. (MLRA 10:6)

1. Iz toksikologicheskoy laboratorii Leningradskogo instituta  
gigiyeny truda i profzabolevaniy.  
(BENZINE--GASOLINE)

GRIGOR'YAN, Z. E.  
GRIGOR'YAN, Z. E.

Possibility of using synthetic "Galosha" as gasoline. *Farm. i toks.*  
20 no.4:78-83 J1-Ag '57. (MIRA 10:11)

1. Toksikologicheskaya laboratoriya (rukovoditel' - doktor biologicheskikh nauk I.D.Gedashkina, konsul'tant - zasluzhennyy deyatel' nauki prof. N.V.Lasarev) Gosudarstvennogo nauchno-issledovatel'skogo instituta gigiyeny truda i profsabolevaniy.

(SOLVENTS,

synthetic gasoline (Bus))

(PETROLEUM PRODUCTS,

synthetic gasoline, use as solvent (Bus))

GRIGOR'YEV, Z.B., kandidat meditsinskikh nauk

Comparative toxicity of synthetic and petroleum solvents of the white-spirit type. Gig. i san. 22 no.2:66-69 Y '57 (MLRA 10:4)

1. Iz toksikologicheskoy laboratorii Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy.

(SOLVENTS, tox.

petroleum & synthetic solvents of white-spirit type, comparison)

**"Toxicological Characteristics of Ligoins LS-213 and LV-2,"**  
**Z. E. Grigor'yev, a Candidate of Medical Sciences, Toxicolo-**  
**gical Laboratory, Leningrad Scientific-Research Institute of**  
**Labor Hygiene and Occupational Diseases, Gigiyena i Sanita-**  
**riya, Vol 22, No 5, May 57, pp 86-88**

Experiments were conducted on rabbits to determine the toxicity of Ligoins LS-213 obtained from petroleum ligroin by thorough hypochlorite purification, and Ligroin LV-2, obtained from heavy alkylates at temperatures of 158-180 degrees. The vapors of both ligoins were found to be mildly irritating to the mucous membrane of the upper respiratory organs. Continuous exposure to the vapors of ligoins caused loss of appetite and emaciation in white mice. Experiments on white rats established the threshold of allowable concentration of the vapors of ligoins in the air at 2 milligrams per liter. In these concentrations the vapors of the ligoins produced disturbances in the functions of the higher nervous system. Ligroin LS-213 was found to be more toxic than Ligroin LV-2. Skin affections were caused by both. (U)

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